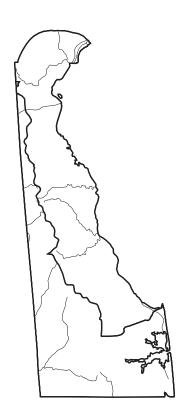
### **Delaware**



Basin Boundaries (USGS 6-Digit Hydrologic Unit)

For a copy of the Delaware 1996 305(b) report, contact:

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### Surface Water Quality

Delaware's rivers and streams generally meet standards for aquatic life uses, but 84% of the surveyed stream miles and 76% of the surveyed lake acres do not meet bacteria criteria for swimming. Bacteria are the most widespread contaminant in Delaware's surface waters, but nutrients and toxics pose the most serious threats to aquatic life and human health. Excessive nutrients stimulate algal blooms and growth of aquatic weeds. Toxics result in seven fish consumption

restrictions in three basins, including Red Clay Creek, Red Lion Creek, the St. Jones River, and the Delaware Estuary. Agricultural runoff, nonpoint sources, municipal sewage treatment plants, and industrial dischargers are the primary sources of nutrients and toxics in Delaware's surface waters.

#### **Ground Water Quality**

High-quality ground water provides two-thirds of Delaware's domestic water supply. However, nitrates, synthetic organic chemicals, saltwater, and iron contaminate isolated wells in some areas. In the agricultural areas of Kent and Sussex counties, nitrates in ground water are a potential health concern and a potential source of nutrient contamination in surface waters. Synthetic organic chemicals have entered some ground waters from leaking industrial underground storage tanks, landfills, abandoned hazardous waste sites, chemical spills and leaks, septic systems, and agricultural activities.

# Programs to Restore Water Quality

The Department of Natural Resources and Environmental Control (DNREC) adopted a watershed approach to determine the most effective and efficient methods for protecting water quality or abating existing problems. Under the watershed approach, DNREC will evaluate all sources of pollution that may impact a waterway and target the most significant sources for

management. The Appoquinimink River subbasin, the Nanticoke River subbasin, the Delaware's Inland Bays subbasin, and the Christina River subbasin are priority watersheds targeted for development of integrated pollution control strategies.

Delaware's Wellhead Protection Program establishes cooperative arrangements with local governments to manage sources of ground water contamination. The State may assist local governments in enacting zoning ordinances, site plan reviews, operating standards, source prohibitions, public education, and ground water monitoring.

## Programs to Assess Water Quality

Delaware's Ambient Surface Water Quality Program includes fixed-station monitoring and biological surveys employing rapid bioassessment protocols. Monitoring within the Fixed Station Network will be modified to provide quarterly sampling for 1 complete year for each basin in Delaware. Delaware is developing and testing new protocols for sampling biological data in order to determine whether specific biological criteria can be developed to determine support of designated uses.

- Not reported in a quantifiable format or unknown.
- <sup>a</sup> A subset of Delaware's designated uses appear in this figure. Refer to the State's 305(b) report for a full description of the State's uses.
- <sup>b</sup>Includes nonperennial streams that dry up and do not flow all year.
- <sup>c</sup> Does not include waters under jurisdiction of the Delaware River Basin Commission.

#### Individual Use Support in Delaware

